

**Application No.: 10/625,898**

**Docket No.: 30014456-2 US (1509-427)**

**Amendments to the Abstract:**

Please substitute the attached Abstract of the Invention for the abstract filed with the application.

**Application No.: 10/625,898****Docket No.: 30014456-2 US (1509-427)****Abstract of the Invention**

Using a plurality of relatively narrowband light sensors having overlapping response characteristics, accurate and self-calibrating colour measurements are performed. With sufficient measurements, simultaneous equations can be solved to derive a light intensity measurement at portions of the spectrum where the overlapping sensor responses intercept. Using LEDs as light sensors provides cheap narrowband sensors. The LEDs also illuminate a sample to provide additional cross-reference measurements. The sensors and/or illumination sources have faces directed at several angles to improve sensing accuracy by mitigating the effects of surface texture and/or fluorescence.